

**Abstract**

The present invention relates to polynucleotides associated with angiogenesis-related disorders. The present invention also relates to canine endostatin genes, novel genes associated with angiogenesis-related disorders, such as cancer. The invention encompasses 5 endostatin nucleic acids, recombinant DNA molecules, cloned genes or degenerate variants thereof, endostatin gene products and antibodies directed against such gene products, cloning vectors containing mammalian endostatin gene molecules, and hosts that have been genetically engineered to express such molecules. The invention further relates to methods for the identification of compounds that modulate the expression of endostatin genes and 10 gene products and to using such compounds as therapeutic agents in the treatment of angiogenesis-related disorders, e.g., cancer. The invention also relates to methods for the diagnostic evaluation, genetic testing and prognosis of angiogenesis-related disorders, e.g., cancer, and to methods and compositions for the treatment these disorders.